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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,318	05/15/2006	Rainer Butendeich	12406-141US1 2803 P2003,0404US	
²⁶¹⁶¹ FISH & RICHA	7590 01/08/200 ARDSON PC	EXAMINER		
P.O. BOX 1022		KALAM, ABUL		
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2814	
			MAIL DATE	DELIVERY MODE
			01/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/561,318	BUTENDEICH ET AL.				
Office Action Summary	Examiner	Art Unit				
	ABUL KALAM	2814				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tim d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 (October 2007					
· · · · · · · · · · · · · · · · · · ·	is action is non-final.					
<i>7</i>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
• _						
• • • • • • • • • • • • • • • • • • • •	4) Claim(s) 1,5-15,17,19 and 20 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
• • • • • • • • • • • • • • • • • • • •	5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1,5-15,17,19 and 20</u> are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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Election/Restrictions

1. This application contains claims 1, 5-15, 17, 19 and 20 directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- a. Species I, drawn to a radiation-emitting semiconductor component with a layer structure wherein the semiconductor component is an LED.
- b. Species II, drawn to a radiation-emitting semiconductor component with a layer structure wherein the semiconductor component is a laser diode in which a first waveguide layer is disposed between the active layer and the n-doped confinement layer, and a second waveguide layer is disposed between the active layer and the p-doped confinement layer, wherein the first waveguide layer is doped with the second n-dopant.
- 2. Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by

37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 3. The claims are deemed to correspond to the species listed above in the following manner:
 - claims 1, 5-7, 12-15 and 17 read on Species I
 - claims 1, 8-15, 17, 19 and 20 read on Species II

The following claims are generic to both of the Species: claims 1, 12-15 and 17.

- 4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Claim 5 of Species I describes the semiconductor component as an LED, while Claim 19 of Species II describes the semiconductor component as a laser diode, which has a first and second waveguide layer, wherein the first waveguide layer is doped with the second n-dopant. Thus, the two species do not have the same technical features, and therefore, are mutually exclusive and lack unity.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABUL KALAM whose telephone number is (571)272-8346. The examiner can normally be reached on Monday Friday, 9 AM 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on 571-272-1705. The

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fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. K./ Examiner, Art Unit 2814 /Phat X Cao/ Primary Examiner, Art Unit 2814